## CLAIM AMENDMENTS

## Claims 1-19. (canceled)

- 1 20. (Currently Amended) An apparatus for downhole 2 drilling of wells comprising: 3 a drilling unit comprising a drill bit for penetrating 4 into a rock formation, 5 a motor arranged to drive the drill bit; 6 . a tubing upon which the motor and the drilling unit are 7 suspended; 8 and 9 pumping means for drawing a that causes the drilling 10 fluid to flow from an [[the]] annulus between the tubing and 11 [[the]] an inner surface of the borehole, and up through [[the]] a 12 bore of the tubing. 1 21. (Previously presented) An apparatus according to 2 claim 20 wherein the motor is an electric motor, and a cable means 3 is disposed along the tubing for energizing said motor.
- 1 22. (Currently amended) An apparatus according to claim
  2 20 wherein the [[pump]] <u>pumping</u> means includes a pump disposed
  3 downhole.

- 23. (Previously presented) An apparatus according to claim 20 wherein the pump is an electric pump, and a cable means is
- 3 disposed along the tubing for energizing said motor.
- 1 24. (Currently amended) An apparatus according to claim
- 2 20 wherein the [[pump]] <u>pumping</u> means <u>include</u> <u>includes</u> at least
- 3 two pumps disposed downhole at different locations on the tubing.
- 1 25. (Previously presented) An apparatus according to
- 2 claim 22 wherein the [[pump ]] pumping means includes a pump
- 3 disposed in the annulus upon the outer surface of the tubing.
- 1 26. (Previously presented) An apparatus according to
- 2 claim 22 wherein the [[pump]] pumping means includes a pump
- disposed in the bore of the tubing.
- 1 27. (Currently amended) An apparatus according to claim
- 2 20 including , further comprising motor and drill bit monitoring
- 3 sensors which monitor [[the ]] action of the motor and the drill
- 4 bit.
- 1 28. (Currently amended) An apparatus according to
- 2 claim 20 including , further comprising directional sensors which
- 3 monitor [[the]] position of the drill bit.

- 1 (Currently amended ) An apparatus for downhole 2 drilling of wells comprising: 3 a drilling unit comprising a drill bit for penetrating 4 into a rock formation[[,]]; a motor arranged to drive the drill bit [[,]]; 5 6 a tubing upon which the motor and the drilling unit are 7 suspended; and 8 pumping means [[that]] for causes causing the drilling 9 fluid to flow down through [[the]]a bore of the tubing, and up through [[the]] an annulus between the tubing and [[the]] an 10 11 inner surface of the borehole, 12 the [[pump]] pumping means including a pump disposed 13 downhole.
- 30. (Previously presented) An apparatus according to claim 29 wherein the motor is an electric motor, and a cable means is disposed along the tubing for energizing said motor.

- 1 33. (Currently amended) An apparatus according to claim
- 2 29 wherein the [[pump ]] pumping means includes a pump disposed in
- 3 the bore of the tubing.
- 1 34. (Currently amended) An apparatus according to claim
- 2 29, further comprising including motor and drill bit monitoring
- 3 sensors which monitor [[the]] action of the motor and drill bit.
- 1 35. (Currently amended) An apparatus according to claim
- 2 29, further comprising including directional sensors which monitor
- 3 [[the]] a position of the drill bill.
- 1 36. (Currently amended) A method [[for]] a downhole
- 2 drilling of wells comprising:
- 3 advancing a drill bit disposed on a tubing into a bore-
- 4 hole, the tubing having an inner flowpath , there being an annulus
- 5 between the tubing and the borehole, the inner flowpath and annulus
- 6 providing a circulation path from [[the]] a top of the borehole to
- 7 the drill bit and back to the top of the borehole.
- 8 driving the drill bit using a motor disposed upon the
- 9 tubing,
- supplying the drill bit with drilling fluid through the
- 11 circulation path, and
- causing said drilling fluid to flow down the annulus and
- then up the tubing using pump means.

- 1 37. (Previously presented) A method according to claim 2 36 wherein the pump means includes a pump disposed in the annulus.
- 38. (Previously presented) A method according to claim
  2 36 wherein the pump means includes a pump disposed in the bore of
- 3 the tubing.
- 39. (Previously presented) A method according to claim
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  36 wherein the pump means is an electric pump, and a cable means is
  disposed along the tubing for energizing said pump.
- 40. (Previously presented) A method according to claim
  2 36 wherein the pump means includes at least two pumps disposed
  3 downhole at different locations on the tubing.
- 1 41. (Previously presented) A method according to claim 2 36 wherein the motor is an electric motor, and a cable means is 3 disposed along the tubing for energizing said motor.
- 42. (Currently amended) An apparatus The method

  according to claim 36 including wherein motor and drill bit

  monitoring sensors which monitor [[the ]] action of the motor and

  drill bit.

- 1 43. (Currently amended) An apparatus The method
  2 according to claim 36 including wherein directional sensors
- 3 [[which]] monitor the position of the drill bit.
- 1 44. (Currently amended) An apparatus for downhole
- 2 drilling of wells comprising:
- a drilling unit comprising a drill bit for penetrating
- 4 into a rock formation [[,]] disposed on tubing,
- 5 a motor arranged to drive the drill bit,
- 6 thruster means disposed upon the tubing and which engage
- 7 with [[the ]] an inner surface of the borehole to urge the tubing
- 8 downwards, and
- 9 a cable means [[is]] disposed along the tubing for
- 10 energizing said thruster means.
- 1 45. (Previously presented) An apparatus according to
- 2 claim 44 wherein the thruster means include at least two thruster
- 3 units disposed downhole at different locations on the tubing.
- 1 46. (Currently amended) An apparatus for downhole
- 2 drilling of wells comprising:
- a drilling unit comprising a drill bit for penetrating
- 4 into a rock formation, disposed on tubing,
- a motor arranged to drive the drill bit,

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6	pumping means that causes the drilling fluid to flow from
7	[[the]] an annulus between the tubing and [[the]] inner surface of
8	the bore hole, and up through [[the]] a bore of the tubing,
9	formation sensors for determining characteristics of the
10	formation environment disposed upon the tubing, and
11	a cable means disposed along the tubing for energizing
12	said formation sensors.